

HIGH-TEMPERATURE SECONDARY BATTERY BASED
ENERGY STORAGE AND POWER COMPENSATION SYSTEM

BACKGROUND OF THE INVENTION

5 Field of the Invention

[0001] The present invention relates to a high-temperature secondary battery based energy storage and power compensation system.

Description of the Related Art

10 **[0002]** Conventionally, various energy storage systems for carrying out a peak shaving function as well as a load leveling function have been proposed. Although the proposed systems have been put into practical use in pumped storage hydro, none of the proposed systems has a power compensation
15 function for compensating for a voltage sag or a service interruption, all of which are likely to happen suddenly in power supply systems.

[0003] Various electric power quality stabilizing apparatus formed by using semiconductor electric power
20 conversion apparatuses capable of inhibiting harmonic distortion as well as voltage fluctuations have also been proposed. In fact, these electric power quality stabilizing apparatuses have been practically used in active filters and static Var compensator(SVC). Furthermore, to compensate for